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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,971	10/18/2006	William R. Tonti	BUR920020076US2	6772
	7590 03/15/201 NAL BUSINESS MAC	OCHINES CORPORATION	EXAM	INER
DEPT. 18G			SOFOCLEOUS, ALEXANDER	
BLDG. 321-48: 2070 ROUTE 5		ART UNIT PAPER NUMBER		PAPER NUMBER
HOPEWELL J	HOPEWELL JUNCTION, NY 12533 2824			
			NOTIFICATION DATE	DELIVERY MODE
			03/15/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

EFIPLAW@US.IBM.COM

	Application No.	Applicant(s)					
Office Action Comments	10/552,971	TONTI ET AL.					
Office Action Summary	Examiner	Art Unit					
	ALEXANDER SOFOCLEOUS	2824					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
• • • • • • • • • • • • • • • • • • • •	action is non-final.						
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the	merits is				
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.							
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5) Claim(s) is/are allowed.	4a) Of the above claim(s) is/are withdrawn from consideration.						
6) Claim(s) is/are rejected.							
7) Claim(s) is/are rejected.							
8) Claim(s) 1-24 are subject to restriction and/or e	lection requirement						
o) Claim(s) 1-24 are subject to restriction and/or e	nection requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the o	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National :	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) tte					

Application/Control Number: 10/552,971 Page 2

Art Unit: 2824

DETAILED ACTION

1. This action is responsive to the following communications: the Application filed October 18, 2006.

2. Claims 1-24 are pending in the case. Claims 1, 15, and 12 are independent claims.

Election/Restrictions

3. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-14, drawn to programmable device including a first end of an elongated semiconductor material having a plurality of integral triangular-shaped portions and a metallic material that is physicall migratable in response to applied current.

Group II, claim(s) 15-20, drawn to method of programming a "device" causing a portion of a semiconductor alloy to migrate in response to flowing electrical current through the device.

Group III, claims 21-24, drawn to a method of manufacturing a programmed device including a metallic material wherein a portion of the metallic material migrates to the other end and melts to form an open circuit.

Art Unit: 2824

The inventions listed in Groups I, II, and III do not relate to a single general inventive concept concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the reasons as follows. The intended special technical feature appears to be the "[migratable portions of metallic material]." While all three Groups share this common feature, the "[migratable metallic material]" is does not fall within the definition of special technical feature because this common feature is shown in the prior art. For example, lyer et al. (U.S. Patent 6,433,404, as cited on the Information Disclosure Statement filed October 11, 2005 and as cited on corresponding International Search Report as a "Y" reference) disclose a programmable element including migratable portions of metallic material. Therefore, this feature does not appear to define a contribution over the prior art and the requirement for unity of invention (for Groups I and II) is not satisfied.

Additionally, Group III (the method of manufacturing) does not appear to be drafted as being specifically adapted for manufacturing the device recited in Group I because Group III does not inherently produce Group I and could be used to manufacture materially different devices that include non-triangular shaped elongated semiconductor materials, such as, e.g., rectangular shaped semiconductor materials.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

CONCLUSION

When responding to this office action, applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner in locating appropriate paragraphs.

A shortened statutory period for response to this action is set to expire ONE

Application/Control Number: 10/552,971 Page 5

Art Unit: 2824

MONTH and zero days from the date of this letter. Failure to respond within the period for response will cause this application to become abandoned (see MPEP 710.02(b)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Sofocleous whose telephone number is 571-272-0635. The examiner can normally be reached on 7:00am - 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on 571-272-1869. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ALEXANDER SOFOCLEOUS/ Examiner, Art Unit 2824